6. (Amended) An ultrasonic motor as claimed in [any preceding] claim 1 wherein the or each flextensional displacement amplifier diaphragm (6a,6b,13) is bonded to the surface of the electro-active disc (7,11) with an epoxy or a metal loaded epoxy.

7. (Amended) An ultrasonic motor as claimed in [any one of claims 1 to 5] claim 1 wherein the or each flextensional displacement amplifier diaphragm (6a,6b,13) is bonded to the surface of the electro-active disc (7,11) with an anaerobic adhesive or modified anaerobic adhesive.

8. (Amended) An ultrasonic motor as claimed in [any one of claims 1 to 5] claim 1 wherein the or each flextensional displacement amplifier diaphragm (6a,6b,13) is soldered or diffusion bonded to the surface of the electro-active disc (7,11).

9. (Amended) An ultrasonic motor as claimed in [any preceding] claim 1 wherein a respective diaphragm (6a,6b) is attached to each side of the disc (7) and a single rotor (4) positioned opposite one of the diaphragms (6b) turns about an axle (1) which is attached to the other diaphragm (6a).

10. (Amended) An ultrasonic motor as claimed in [any one of claims 1 to 8] claim 1 wherein a respective diaphragm (6a,6b) is attached to each side of the disc (7) and a respective rotor (4a,4b) is arranged opposite each diaphragm (6a,6b) of which one rotor (4b) is attached to an axle and the other (4a) can slide axially along the axle.

11. (Amended) An ultrasonic motor as claimed in [any one of claims 1 to 8] claim 1 wherein an axle (1) is attached to the electro-active material disc (7,11) and one or more rotors (4a,4b,13) turn about said axle (1) on bearings (10,17).

12. (Amended) An ultrasonic motor as claimed in [any preceding] claim 1 wherein one or more rotors (4a,4b,14) are held in contact with the displacement amplifier diaphragms' (6a,6b,13) oscillating surfaces utilising magnetic attraction, when this

magnetic attraction is brought about by the rotors (4a,4b,14) having a remnant magnetic polarisation and the diaphragms (6a,6b,13) being made of ferromagnetic materials, such as the metals Iron, Nickel or Cobalt or their alloys.

13. (Amended) An ultrasonic motor as claimed in [any one of claims 1 to 11] claim 1 wherein one or more rotors (4a,4b,14) are held in contact with the displacement amplifier diaphragms' (6a,6b,13) oscillating surfaces utilising magnetic attraction, when this magnetic attraction is brought about by the diaphragms (6a,6b,13) having a remnant magnetic polarisation and the rotors (4a,4b,14) being made of ferromagnetic materials, such as the metals Iron, Nickel, or Cobalt or their alloys.

14. (Amended) An ultrasonic motor as claimed in [any one of claims 1 to 11] claim 1 wherein one or more rotors (4a,4b,14) are held in contact with the displacement amplifier diaphragms' (6a,6b,13) oscillating surfaces utilising magnetic attraction, when this magnetic attraction is brought about by an electromagnet winding.

15. (Amended) An ultrasonic motor as claimed in [any one of claims 1 to 11] claim 1 wherein one or more rotors (4a,4b,14) are held in contact with the diaphragms (6a,6b,13) by one or more springs.

18. (Amended) An ultrasonic motor as claimed in [any preceding] claim 1 wherein a layer or structure of an elastic material is attached to the surface of the rotor/diaphragm interface (5,5a,5b).

19. (Amended) An ultrasonic motor as claimed in [any preceding] claim 1 wherein elastic fins (5,5a,5b) are provided at the interface that each have a fin tip which contacts the friction interface such that, the fin tip has an instantaneous rotation about a rotation point not in line with the fin tip contact point in the direction of rotation, thus causing a horizontal friction reaction which drives the rotor (4,4a,4b,14) on the

expansive stroke of the displacement amplifier (6a,6b,13), yet allows the fin to relax on the downstroke and the fin tip to slide on the friction interface.

21. (Amended) An ultrasonic motor as claimed in claim 19 [or claim 20] wherein the elastic fins (5,5a,5b), which make contact with the friction interface, have one or more curved sections in their length.

22. (Amended) An ultrasonic motor as claimed in claim 19 [or claim 20] wherein the elastic fins (5,5a,5b), which make contact with the friction interface, have at least two straight sections that are joined in at an angle.

23. (Amended) An ultrasonic motor as claimed in [any preceding] claim 1 wherein the or each flextensional amplifier diaphragm (6a,6b,13) is dish-shaped with an upset central region.

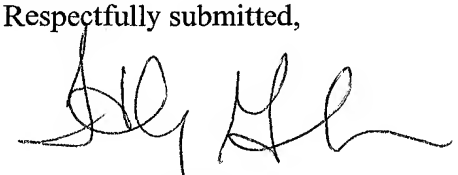
REMARKS

By this preliminary amendment, Applicant has amended the claims to eliminate multiple dependencies and thus more clearly state the present invention. Should there remain any questions or other matters the resolution of which may be advanced by a telephone call, the Examiner is cordially invited to contact the Applicant's undersigned attorney at the number below.

No new matter is added by the amendments. A clean copy of the claims as amended is enclosed herewith.

No fee is due with respect to this amendment. Please credit any overpayment or charge any underpayment to Deposit Account No. 13-2165.

Respectfully submitted,



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